

Automation of Health Management, Troubleshooting and Recovery in Lunar Outpost, Phase II

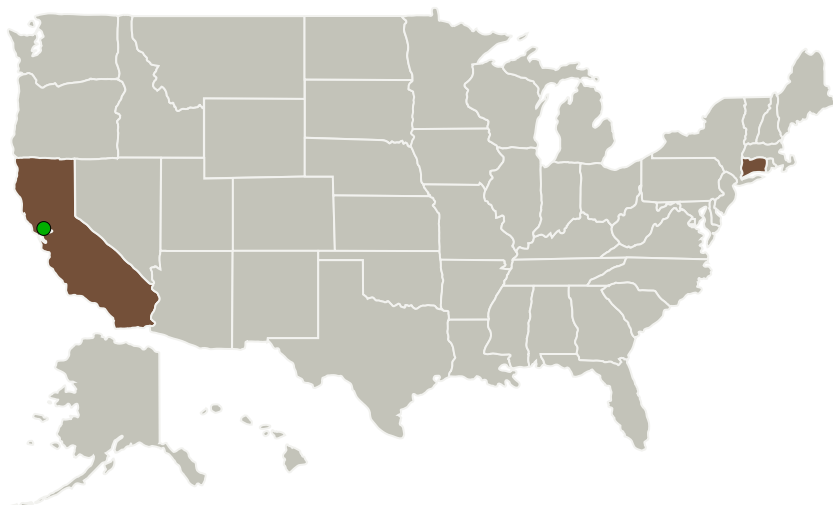
Completed Technology Project (2011 - 2013)



Project Introduction

The overall Phase-II goal is to develop the technologies and tools that can aid the automation of operation by providing intelligent decision support in situations when a mission plan needs alteration due to an event(s). The effort targets not only developing the algorithms, but also to implement them on QSI's TEAMS platform; this will transition the technologies into a useful tool for the A4O community.

Primary U.S. Work Locations and Key Partners



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Organizations Performing Work	Role	Type	Location
Qualtech Systems, Inc.	Lead Organization	Industry Minority-Owned Business, Small Disadvantaged Business (SDB)	Rocky Hill, Connecticut
● Ames Research Center(ARC)	Supporting Organization	NASA Center	Moffett Field, California

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Primary U.S. Work Locations

California

Connecticut

Project Transitions



June 2011: Project Start



May 2013: Closed out

Closeout Documentation:

- Final Summary Chart(<https://techport.nasa.gov/file/138719>)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Qualtech Systems, Inc.

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

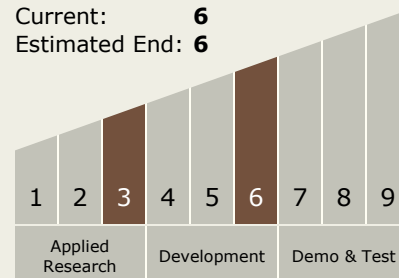
Marta Olenick

Technology Maturity (TRL)

Start: 3

Current: 6

Estimated End: 6



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Technology Areas

Primary:

- TX17 Guidance, Navigation, and Control (GN&C)
 - └ TX17.2 Navigation Technologies
 - └ TX17.2.1 Onboard Navigation Algorithms

Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System